20020513.qrp v02_n554.qrl.20020513

Date: Mon, 13 May 2002 19:03:09 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2554

QRP-L Digest 2554

Topics covered in this issue include:

by Rick McKee <kc8aon@juno.com>
19) [126560] Re: QRP VHF Antenna question
by adamvaz@palm.net (Adam Vazquez)
20) [126561] Web site update
by "Jim Thiessen" <jthiessen@videotron.ca>
21) [126562] 1N34 spec?
by "Bob Shaw" <lycott@istop.com>
22) [126563] Re: Epiphyte 3 - LED D5 and D7 - What are they
by Junichi Nakajima <nakaji@crl.go.jp>
23) [126564] Re: 1N34 spec?
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
24) [126565] Boy Scout Demo
by <brad.mugleston@attbi.com>
25) [126566] Re: 1N34 spec
by "Per-Arne Asp" <per-arne.asp@tordata.se>
26) [126567] Re: Boy Scout Demo
by Pete Burbank <plburbank@kih.net>
27) [126568] Re:wind power
by "Francis Callahan" <colcal@srv.net>
28) [126569] RE: Boy Scout Demo
by "Ray Goff" <radioham@gmx.co.uk>
29) [126570] Re: 1N34 spec?
by David Hinerman <WD8CIV@worldnet.att.net>
30) [126571] Re: Ideas (wind power)
by Bruce Grubbs <mail@brucegrubbs.com>
31) [126572] Re: Boy Scouts... interest....
by "ss lyon" <sslyon@megalink.net>
32) [126573] RE: Boy Scout Demo
by Kenneth Hoglund <hoglund@wfu.edu>
33) [126574] Re: Boy Scout Demo
by David Hinerman <WD8CIV@worldnet.att.net>
34) [126575] W1RFI at Ft Tuthill
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
35) [126576] RE: Boy Scout Demo
by "Kwik, Ed " <ed.kwik@delphiauto.com>
36) [126577] Re: Boy Scout Demo
by jnewell@attbi.com
37) [126578] toroids & PC boards
by David Hinerman <WD8CIV@worldnet.att.net>
38) [126579] Arnie missing from FDIM?
by "Howard Kraus" <K2UD@adelphia.net>
39) [126580] Re: toroids & PC boards
by "w8diz" <w8diz@fpqrp.com>
40) [126581] Re: Boy Scout Demo
by "Don Foster" <k5kw@geotec.net>
41) [126582] Effective matching for very short antennas
by "Ian Wilson" <ianmwilson@earthlink.net>
42) [126583] Re: Sprat CD version 2

by "Graham G3MFJ" <graham@g3mfj.fsnet.co.uk>
43) [126584] Re: Effective matching for very short antennas
by Jake Brodsky <frussle@erols.com>
44) [126585] Re: Effective matching for very short antennas
by "George, W5YR" <w5yr@att.net>
45) [126586] FS Gusher Antennas at FDIM - no miracles...
by "n2cx" <n2cx@voicenet.com>
46) [126587] Boy Scouts and Youth Demo Tips
by Brian Mileshosky <n5zgt@swcp.com>
47) [126588] Needed:PCB thru hole repair eyelets
by "Craig A. Ferris" <cferris@aeronix.com>
48) [126589] Re: Needed:PCB thru hole repair eyelets
by "Rod N0RC" <rod@n0rc.com>
49) [126590] Re: toroids & PC boards
by "Dave Fifield" <dave@redhotradio.com>
50) [126591] Re: Needed:PCB thru hole repair eyelets
by "Mike Yetsko" <myetsko@insydesw.com>
51) [126592] "Mic In" OK Replacement for "Line In" on PSK 31 ?
by "James P. Rybak" <jrybak@mesastate.edu>
52) [126593] June QST
by "Brian Murrey" <brian@iquest.net>
53) [126594] Re: Boy Scouts and Youth Demo Tips
by "Brian Murrey" <brian@iquest.net>
54) [126595] Re: Boy Scouts and Youth Demo Tips
by David Hinerman <WD8CIV@worldnet.att.net>
55) [126596] Re: Boy Scouts and Youth Demo Tips
by Brian Mileshosky <n5zgt@swcp.com>
56) [126597] QRP-DX Net
by "Oleg V. Borodin" <master72@lipetsk.ru>
57) [126598] Re: toroids & PC boards
by "Oleg V. Borodin" <master72@lipetsk.ru>
58) [126599] Member's list
by "Oleg V. Borodin" <master72@lipetsk.ru>
59) [126600] Re: Aluminum / S-S Compatibility (off topic)
by "Lee Mairs" <lmairs@cox.rr.com>
60) [126601] Ttoroids & PC board Hole Patterns
by "Karl Kanalz" <kkanalz@gcecisp.com>
61) [126602] RE: Needed:PCB thru hole repair eyelets
by "Bob Berlyn" <bberlyn@baycomp.com>
62) [126603] Re: "Mic In" OK Replacement for "Line In" on PSK 31 ?
by Parker Buckley <buckley@iapdatacom.net>
63) [126604] Re: Boy Scout Demo
by "Bruce Shaw" <ag4ny@ivwnet.com>
64) [126605] Re: "Mic In" OK Replacement for "Line In" on PSK 31 ?
by "Mike Yetsko" <myetsko@insydesw.com>
65) [126606] Dayton List de K7QO
by Chuck Adams <k7qo@earthlink.net>
66) [126607] Re: [QRPp-I] QRP-DX Net

by "Oleg V. Borodin" <master72@lipetsk.ru>

Date: Sun, 12 May 2002 18:58:05 -0400 (EDT)
From: baltimoremd@baltimoremd.com
To: Joel M Denison <hamjoel@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126542] Re: Test... DUE KNOT REAPLY
Message-ID: <20020512185647.D33678-100000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 12 May 2002, Joel M Denison wrote:

> tHIS IS A TEST...

Kute howe yu mangal the langage, hop yer cw mour litrat.

73
Thom

baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster
http://www.baltimoremd.com/ Baltimore's Home Page
http://www.baltimorehon.com/ Home of the Baltimore Lexicon
http://www.zerobeat.net Home of The QRP Web Ring
and Drake Mail List Pages

Date: Sun, 12 May 2002 16:05:34 -0700
From: "Dave Fifield" <dave@redhotradio.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126543] Decoupling Capacitor Rules of Thumb (was: Re: What to *BUY* at a Hamfest, if you haven't already)
Message-ID: <00c001c1fa09$86085ff0$0200a8c0@AD6A>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

0.1uF caps are typically only good till
about 20MHz when they start to become
inductive. 20MHz is their self-resonant
frequency (SRF). 0.01uF caps have a
typical SRF of 100MHz and 1000pF
caps a few hundred MHz.

A rough rule of thumb would be that
0.1uF capacitors are good for 160m,
80m, 40m and 30m only.

If you are doing homebrew at 20m
and above, I recommend decoupling with
more than one capacitor. From 20m to
6m I'd use 0.1uF in parallel with 0.01uF
and for 2m/1.5m use 0.01uF||1000pF.
For 70cm you should use 1000pF||100pF.

Place the decoupling caps right next to
each other. If you space them out,
there is the possibility that you could
unwittingly create VHF resonances that,
far from decoupling signals to ground,
actually increase signals on the rail you
are trying to decouple at certain frequencies.

72, Dave, AD6A

Date: Sun, 12 May 2002 16:19:47 -0700
From: "Steve McDonald" <jsm@gulfislands.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126544] Aluminum / S-S Compatibility (off topic)
Message-ID: <001201c1fa0b$83c514c0$7411f4cc@jsm>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to all who responded to my inquiry!

Steve

Date: Sun, 12 May 2002 15:19:06 -0800
From: Jim Larsen - AL7FS <AL7FS@ARRL.NET>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>,
        QRP Canada <qrp-canada@neale.gpfn.sk.ca>
Subject: [126545] KL7Y station running QRP in the 2001 ARRL November Sweepstakes,

Phone
Message-ID: <3CDEF86A.BF30B125@ARRL.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings from Alaska,

There is a great write-up with pictures about the KL7Y station running QRP in the 2001 ARRL November Sweepstakes, Phone.

At the ARRL website:
http://www.arrl.org/members-only/contests/results/2001/SS-PH/

It is in the members only section but it is a great QRP write-up.

One quote from the article, "...last year, the solar winds abated and for one brief 21-hour period, the ether cooperated. 1,187 QSOs. 189,920 points. In QRP. First place. A QRP all-time record. A sweep."

All this and John, WA2GO, said, "I'm quite convinced people weren't turning their beams northwest and listening for puny KL7Y at least 30 dB weaker than they were used to." He went on to say, ""This was my 24th consecutive Sweepstakes without ever missing one, and was without a doubt the most fun I have EVER had in ANY contest, bar none. It just blew my mind what the station was capable of with just 5 watts." Of course, the 5/5/5/5 stacks on 10 and 15 didn't hurt. Neither did the 205BA at 120 feet or the 204BA at 70 feet."

If you can get to the article, it is a good read on what can be done on QRP and with great antennas.

73, Jim
--
Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
mailto:al7fs@arrl.net - http://www.qsl.net/al7fs/

Date: Sun, 12 May 2002 19:32:20 -0400
From: "Jim Dolson" <jdolson@iserv.net>
To: <qrp-l@Lehigh.EDU>
Subject: [126546] Epiphyte 3 Testing - Help!
Message-ID: <001701c1fa0d$493fee90$9209e0d0@office>
MIME-Version: 1.0
Content-Type: text/plain;

        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gentlemen,

On page 6, "Testing and Alignment", third bullet, says "With an RF probe verify that both oscillators are functioning. Set the LF oscillator to 452.6KHz with the trimmer cap. Tune for the 9th harmonic at 4.074 MHz on a closely coupled receiver."

Well, the only carrier that I can hear is at 3.8MHz. As I adjust the tuning pot, the carrier moves. Adjusting the trimmer does nothing to change the frequency of the carrier. The only other thing that I observe is that touching coils does nothing EXCEPT touching L6 which sends the received signal into a tizzy and my finger approaces it and the carrier disappears entirely when I touch L6.

Adjusting the tuning pot moves the carrier from 3.660 MHz to 3.915 MHz.

Any suggestions? Replies to jdolson@iserv.net are appreciated because I get the list in digest form.

Thanks,

Jim
wb8zbd

Date: Sun, 12 May 2002 19:34:00 -0400
From: "Jim Dolson" <jdolson@iserv.net>
To: <qrp-l@Lehigh.EDU>
Subject: [126547] Epiphyte 3 - LED D5 and D7 - What are they?
Message-ID: <002301c1fa0d$7f173230$9209e0d0@office>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I finally have time to finish my Epiphyte 3 and what do I do? I put 12v across one of the LEDs.

Anyway, I don't see D5 or D7 in the parts list. Does anyone know what type of LED they are? I tried a couple from my junk box but none of them light up as brightly as the surviving LED does. I'm hoping to pick up a suitable replacement at Radio Shack.

If possible, please reply directly to jdolson@iserv.net since I get qrp-l in digest form.

Thanks,

Jim
wb8zbd

Date: Sun, 12 May 2002 16:55:20 -0700
From: Mighty Mik <mightymik2@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126548] Re: Ideas (wind power)
Message-ID: <5.1.0.14.0.20020512165159.00b216e0@mail.attbi.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

If anyone has good info on this...i'd like to hear more. My understanding it that an an alternator does not work well, because the bearings wear out, and that just putting a set of blades on it will not turn it fast enough to do anything. Otherwise...wouldn't *everybody* be doing it? :)

At 09:17 PM 5/12/2002 +0000, you wrote:
>Wind Generator for Ham gear !!!!!!!!!
>
>   It seems to me that if someone wanted this, it would be
> relatively simple to go down to the local junk yard, pick up an old car
> generator or alternator, hook it up to some sort of wind props, maybe ad
> a bit of circuit to control the power and you have it. It might be a bit
> heavy for back packing but good for some applications. Actually, a small
> motor could be converted to a generator also. Does this sound possible to
> the more versed at building from the bottom up? Of course, spending
> $300.00 is a more interesting prospect for some folks.
>
>   Just ideas, thinking out loud here. Maybe I can inspire someone
> to come up with a good design to pass back to us.
>
>Mike,
>KB1DXC
>
>>Francis wrote:
>>"There is an outfit in Qaurtsite AZ that sells the wind generators, C an't
>>rember the name but thet are about $300.00 if I rember right 72 Cal KF7ET
>>misplaced Vermonter in Idaho"
>--
>KB1DXC, Stamford, Ct.

>
>Visit our club web site at:
>
>http://www.qsl.net/w1ee/ctsara.htm
>
>Our repeater is on 146.655, negative offset of 600 and a tone of 100

Date: Sun, 12 May 2002 16:01:47 -0800
From: Jim Larsen - AL7FS <AL7FS@ARRL.NET>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126549] ARRL Handbooks For Sale - 1978, 79
Message-ID: <3CDF026B.1B07FD01@ARRL.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have some ARRL Handbooks for sale. They're in good shape but with some light wear...no loose pages or broken
spines.

Here's the list...price includes Media Mail (book rate) USPS shipping in the USA. No hidden costs:

> Old Style Smaller Format books:
> 1978 - Paperback - $9

> New Style Current Size Format books:
> 1979 - Paperback - $9

I'll take check, money order, or PayPal from checking account only (no charge cards).

Email off-list if interested.

73, Jim
--
Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
mailto:al7fs@arrl.net - http://www.qsl.net/al7fs/

Date: Sun, 12 May 2002 19:10:24 -0500
From: Tim Pettibone <k5oi@cox.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126550] Re:wind power
Message-ID: <5.1.0.14.0.20020512190213.009fb9c0@pop.central.cox.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At the risk of continuing to take us further OT I will point out that the
most recent issue of "Mother Earth News" (June/July) has a very good
article on wind power with lots of URLs and other good information.

Tim K5OI
Stillwater, OK

Date: Sun, 12 May 2002 20:30:42 -0400
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: <mightymik2@attbi.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126551] Re: Ideas (wind power)
Message-ID: <012e01c1fa15$6a96a7c0$d2af2341@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This is in my FWIW dept.!! back in the 30's -40's most farms didn't have
electricity so they used radios that ran mostly on 6 volt car batteries!!
they also used a wind generator for charging the battery!! The name that
came to me just now was Win-charger, so some research in OLD books might
turn up some useful info!!! My $.02 !!!!
  carl / kz5ca
----- Original Message -----
From: "Mighty Mik" <mightymik2@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, May 12, 2002 7:55 PM
Subject: Re: Ideas (wind power)

> If anyone has good info on this...i'd like to hear more. My understanding
> it that an an alternator does not work well, because the bearings wear
out,
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> >http://www.qsl.net/w1ee/ctsara.htm
> >
> >Our repeater is on 146.655, negative offset of 600 and a tone of 100
>

Date: Sun, 12 May 2002 17:43:26 -0700
From: "Kory Hamzeh" <kory@avatar.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126552] RE: Ideas (wind power)
Message-ID: <001201c1fa17$31d02180$14ce21c7@avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Lindsay Publication carries some great books in Wind Generators.

http://www.lindsaybks.com/prod/index.html

73,
Kory
AC6RN

Date: Sun, 12 May 2002 20:42:15 -0400
From: "Kevin F. Glynn" <kfglynn@mindspring.com>
To: <qrp-l@lehigh.edu>
Subject: [126553] RE: need source for southbend sd20 pole
Message-ID: <001601c1fa17$07b55280$13e5fea9@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gary,

I bought mine a few years back from Cabellas mail order. I think it was
about $20 plus s/h. I believe their website is www.cabellas.com.

GL

72 Kevin N2TO
Brooklyn, NYC
kfglynn@mindspring.com

Date: Sun, 12 May 2002 20:58:55 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [126554] Re: Ideas (wind power)
Message-ID: <20020512.205859.8462.0.kc8aon@juno.com>

There is a real good article in the December 2001 issue of 73 Magazine
about using stepper motors for wind generators - they don't require as
much speed as an alternator does. An alternator requires something like
600 RPM's and up to do any good !

Rick McKee, KC8AON
Willow Wood, Ohio
QRP - Do more with less !

>If anyone has good info on this...i'd like to hear more. My
>understanding
>it that an an alternator does not work well, because the bearings wear
>out,
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>do anything. Otherwise...wouldn't *everybody* be doing it? :)
>

Date: Sun, 12 May 2002 18:14:39 -0700 (Pacific Daylight Time)
From: "Michael Colvin" <mcolvin@myrealbox.com>
To: <qrp-l@Lehigh.EDU>
Subject: [126555] Re: Ideas (wind power)
Message-ID: <3CDF137F.000039.01856@verbocit-j3jws9>
MIME-Version: 1.0
Content-Type: Text/Plain
Content-Transfer-Encoding: quoted-printable

Here's a web site for the true homebrew energy afficianado:
http://geoffegel.tripod.com/wingen.htm
In addition to wind generation, the site covers other forms of free energy,
which might be developed into energy sources for QRP operation.

Michael Colvin, KB MJ
kb0mj@qsl.net, for amateur radio-related mail
mcolvin@myrealbox.com for general mail
http://colvin.info
"Pay no attention to the man behind the curtain!"

--

Date: Sun, 12 May 2002 21:18:50 -0400
From: "S. Bryan Williams" <sbw1@enter.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [126556] RE: Ideas (wind power)
Message-ID: <KCEALKFJOKEDHFPOILMPMECCCHAA.sbw1@enter.net>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>The name that came to me just now was Win-charger, so some research in
OLD
>books might turn up some useful info!!! My $.02 !!!!

Check out the following website:
   http://www.wincharger.com/

Bryan Williams
AA3WM

Date: Sun, 12 May 2002 21:21:58 -0400
From: "Jim Stamper" <jstamper@shentel.net>
To: <carlseye@tampabay.rr.com>,
	"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126557] Re: Ideas (wind power)
Message-ID: <003c01c1fa1c$94899f40$3e1c6fcc@jim>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Seems like I remember the Win-charger being in the Allied Radio Catalogs in
the 40's and early 50's. Might be worth searching eBay and other web sites
to see if that name can be found.

jim-
KG4LDY

----- Original Message -----
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, May 12, 2002 8:30 PM
Subject: Re: Ideas (wind power)

> This is in my FWIW dept.!! back in the 30's -40's most farms didn't have
> electricity so they used radios that ran mostly on 6 volt car batteries!!
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> ----- Original Message -----
> From: "Mighty Mik" <mightymik2@attbi.com>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Sunday, May 12, 2002 7:55 PM
> Subject: Re: Ideas (wind power)
>
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> > >
> > >Visit our club web site at:
> > >
> > >http://www.qsl.net/w1ee/ctsara.htm
> > >
> > >Our repeater is on 146.655, negative offset of 600 and a tone of 100
> >
>
>

Date: Sun, 12 May 2002 21:24:19 -0400
From: wkhibbert@juno.com
To: qrp-l@lehigh.edu
Subject: [126558] Wind Power in QST
Message-ID: <20020512.212420.-515811.0.wkhibbert@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. Keith here in the Depths of the Great Bergen Swamp.

First off, I don't see this as off-topic. Most all of the hams on the list are going to operate Field Day, and there is a bonus that can be earned for natural power operation. During the times that your solar panels are NOT working, nighttime or rainstorms, the wind usually is still blowing. It fits in nicely with an integrated energy budget. Some may disagree, but for those that do, please send me your replies directly. The mailbox is open at wb2vuo@arrl.net

I don't have the particular QST here, it was back in the 80's or late 70's, but there was an article about converting a car alternator to be used as a wind generator.

What I do recall was that the conversion was a bit labor-intensive...

1 - The alternator was rewound to start providing useable current below 600 RPM.

2 - The alternator was mounted in an offset fashion and belt-driven. The pulley size was such that the alternator would spin up and produce power in a 7 - 10 knot wind (8 - 11.5 MPH)

3 - This is something I am really hazy on, but I believe that the diodes were bypassed and the output was 3-phase AC, stepped up with 3 control transformers and then delivered to the load.

I gave away all of the QST's I had from that era when I moved the last time. This may be available on-line from the ARRL, but I have not checked into that.

If one wished to use windpower for Field Day, it's time to get cracking and build your best effort (or buy one!)

73, Wm. Keith Hibbert, WB2VUO, TC/WNY ARRL Section
President, Brockport Amateur Radio Klub
"My night light runs more power than my Rig!!!"
mailto:wb2vuo@arrl.net

Date: Sun, 12 May 2002 21:03:20 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [126559] Re: need source for southbend sd20 pole
Message-ID: <20020512.213033.3550.0.kc8aon@juno.com>

Have you tried your local Wal-Mart ? I know they carry them in my area or something very similar to them !

Rick McKee, KC8AON
Willow Wood, Ohio
QRP - Do more with less !

Date: Sun, 12 May 2002 21:35:40 -0400
From: adamvaz@palm.net (Adam Vazquez)
To: stjohn@ocsnet.net, qrp-l@Lehigh.EDU
Subject: [126560] Re: QRP VHF Antenna question
Message-ID: <20020513013541.0EAC74501@mo120uhou.palm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello de Adam Kb2Jpd

Following the rule that the antenna cut for frequency x would work on
frequency 3x:

144x3=432
148x3=444

440x2=880 (the old AMPS celBand)
450x2=900

440x3=1320   (the PCS Band)
450x3=1350

Most new cellphones are in the 1.3 Ghz PCS band, and the remainder are
on 850-890 Mhz.

Prior installations of mine were okay as long as you are in close
proximity to the internal antenna and you are running full power to the
handhelds. Use good antennae and quality coax.

72/73 Adam Vazquez Kb2Jpd

Date: Sun, 12 May 2002 22:08:30 -0400
From: "Jim Thiessen" <jthiessen@videotron.ca>
To: <qrp-l@Lehigh.EDU>
Subject: [126561] Web site update
Message-ID: <001b01c1fa23$13b4cd20$1e02a8c0@WorkGroup>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I updated my website at http://pages.infinit.net/va3kv/

Please check out the basket case 35 MHz scope.

More links to come soon for the other gear.

I will be at FDIM and Dayton Hamvention this week. I will be bringing my Canon digital camera and I will post some pictures on my web site when I get back. Stay tuned

Ottawa just lost game 6 against Toronto...(expletive deleted)

Jim
VA3KV
Rockland, Ontario

Date: Sun, 12 May 2002 23:00:52 -0400
From: "Bob Shaw" <lycott@istop.com>
To: "QRP-L Posting" <qrp-l@Lehigh.EDU>
Subject: [126562] 1N34 spec?
Message-ID: <02f401c1fa2a$64c09e40$0301a8c0@athlon>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone know the approx. max forward current a 1N34 diode can handle? Are there any other germanium diodes easily available with better current handling ability? I am looking for a low forward voltage drop for a low power wind generator idea I am trying out.

I have old reference books, but none list the 1N34, and a search of the web doesn't seem to yield any spec sheets for something this old!

Bob

Date: Mon, 13 May 2002 12:21:59 +0900
From: Junichi Nakajima <nakaji@crl.go.jp>
To: qrp-l@Lehigh.EDU, jdolson@iserv.net
Subject: [126563] Re: Epiphyte 3 - LED D5 and D7 - What are they
Message-ID: <200205130315.MAA27432@ryuu.>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Jim

As I remember, the LEDs in the EP-3 kit are red 4mm diameter, not a special one.
Before you consider alignment using the LEDs, correct the LFO(VFO) and BFO
oscillation frequency is much important. If these are not working properly,
latter stages are not handling the right signals.

Hope you will enjoy the stages to complete your EP-3.
Any further question welcome.

JL1KRA/QRP
Junichi Nakajima

Date: Sun, 12 May 2002 23:29:29 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: "Bob Shaw" <lycott@istop.com>, qrp-l@Lehigh.EDU
Subject: [126564] Re: 1N34 spec?
Message-ID: <200205130334.g4D3Y1up020681@rhombus.bright.net>

Paul Hardin's book says 150 ma max forward current for the 1N34 and the
1N34A....
73 - Bill - N8ET
Kanga US
kanga@bright.net
http://www.bright.net/~kanga/
419-423-4604

Date: Sun, 12 May 2002 23:11:57 -0600 (MDT)
From: <brad.mugleston@attbi.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: brad mugleston <bmug@gwl.com>
Subject: [126565] Boy Scout Demo
Message-ID: <Pine.LNX.4.33.0205122306030.3098-100000@mugleston.mugs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've been asked to talk to a local Boy Scout Troop this Wednesday evening.
I have about 1/2 hour to 45 minutes and was wondering what kinds of things
have been done to really grab them in a short period of time.

I've done this before and the interest has been luke warm at best. I plan

to try and cover their interests (Web access is one - don't know how to
get Girls into the presentation, I know they are interested in them).

So if any of you have done a presentation for 12 to 18 year olds and hit
on something they were interested in I sure would like to hear about it.

Sorry about the late notice but sometimes life is like a box of diodes,
your never really sure about what you have unless you try them out.

de KI0OT, Brad

Date: Mon, 13 May 2002 07:32:06 +0200
From: "Per-Arne Asp" <per-arne.asp@tordata.se>
To: <qrp-l@lehigh.edu>
Subject: [126566] Re: 1N34 spec
Message-ID: <001f01c1fa3f$8dceaba0$0a00a8c0@pa>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Why not use a Schottky-diode? Low fwd drop and avialable up to several =
amps.

72/37 de sm4inv, p-a

http://www.asp.st

"Take nothing but memories=20
Leave nothing but footprints=20
Kill nothing but time=20
Above all, have fun"=20

Date: Mon, 13 May 2002 02:01:26 -0400
From: Pete Burbank <plburbank@kih.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126567] Re: Boy Scout Demo
Message-ID: <5.0.2.1.0.20020513015519.00abcea0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Brad was thinking that some history might grab them at the onset followed

by some current methods.
73 Pete NV4V

At 11:11 PM 5/12/2002 -0600, brad.mugleston@attbi.com wrote:
>I've been asked to talk to a local Boy Scout Troop this Wednesday evening.
>I have about 1/2 hour to 45 minutes and was wondering what kinds of things
>have been done to really grab them in a short period of time.
>
>I've done this before and the interest has been luke warm at best. I plan
>to try and cover their interests (Web access is one - don't know how to
>get Girls into the presentation, I know they are interested in them).
>
>So if any of you have done a presentation for 12 to 18 year olds and hit
>on something they were interested in I sure would like to hear about it.
>
>Sorry about the late notice but sometimes life is like a box of diodes,
>your never really sure about what you have unless you try them out.
>
>de KI0OT, Brad

Date: Mon, 13 May 2002 04:08:03 -0600
From: "Francis Callahan" <colcal@srv.net>
To: <k5oi@cox.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [126568] Re:wind power
Message-ID: <000b01c1fa66$13253be0$badd070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I didn'tknow mother earth news was still on the stands. But they put out in
1974 a Handbook of Homemade Power. There are several good articles in there.
Cal KF7ET misplaced Vermonter in Idaho
----- Original Message -----
From: "Tim Pettibone" <k5oi@cox.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, May 12, 2002 6:10 PM
Subject: Re:wind power

> At the risk of continuing to take us further OT I will point out that the
> most recent issue of "Mother Earth News" (June/July) has a very good

> article on wind power with lots of URLs and other good information.
>
> Tim K5OI
> Stillwater, OK
>
>

Date: Mon, 13 May 2002 12:41:17 +0100
From: "Ray Goff" <radioham@gmx.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126569] RE: Boy Scout Demo
Message-ID: <FDEOKGEJJFNPABJIJGDDMENDEEAA.radioham@gmx.co.uk>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi,

We run a Jamboree On The Air station each October where Boy Scouts and Girl Guides drop in over the weekend to see the station and also it gives them a chance to earn their Radio Communications badge. I don't know if this badge exists in the US?

We have found that the idea of speaking into a microphone doesn't really get them excited, in fact the most talkative are the ones most likely to freeze when handed the icrophone! Also, the notion that the station might be a long way away seems to be lost on them as well - I guess if you can use a cell phone to talk to the world, it is difficult to explain how little infrastructure is needed to use amateur radio!

However, what does seem to peak their interest is the use of codes such as QSY etc. and also, believe it or not, Morse! We have analysed it here and have come to the conclusion it is the secrecy aspect which appeals to them - if they learned the 'Q' codes they can speak to the 'in' friends in a way that was not immediately obvious to outsiders.

My daughter, who is 12, is a Girl Guide and has become interested in Amateur Radio partly through me and partly because of these Jamboree's. She has recently taken the new Foundation License here in the UK and is fascinated by PSK31 - this time the attraction is the combination of the computer and the radio. Look out for M3MLG on 20m PSK!

I hope that this might give you some ideas!

73/72's de Ray g4fon

RSGB, BATC, GQRP-10698
QRP-L 2378, QRP-ARCI 11153
ray@g4fon.co.uk
www.g4fon.co.uk

Date: Mon, 13 May 2002 08:20:02 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [126570] Re: 1N34 spec?
Message-ID: <5.1.0.14.1.20020513080953.00a6d8a0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:00 PM 5/12/2002 -0400, you wrote:
>Does anyone know the approx. max forward current a 1N34 diode can handle?
>Are there any other germanium diodes easily available with better current
>handling ability? I am looking for a low forward voltage drop for a low
>power wind generator idea I am trying out.

This ol' book (1970 Motorola Semiconductor Data Book) has these specs for the 1N34:

reverse blocking voltage = 60 volts
average forward voltage drop 1 volt at 8.5 mA
average reverse current 15 uA

There is no maximum forward current specification, but it is intended to be a signal diode, so it's probably pretty low.

You might want to consider a Schottky diode. They have a lower forward voltage drop than other silicon diodes (in the 0.3V range), and some are made as power devices.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

---

Dave Hinerman

WD8CIV@worldnet.att.net

Date: Mon, 13 May 2002 05:29:59 -0700
From: Bruce Grubbs <mail@brucegrubbs.com>
To: jstamper@shentel.net,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [126571] Re: Ideas (wind power)
Message-ID: <5.1.0.14.0.20020513052650.028b4958@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi all,
Southwest Windpower is here in Flagstaff, AZ. The URL is
http://www.windenergy.com/

One of the principals gave a talk at our local club a couple of years ago.
Although their design seems simple, there's a lot of engineering involved.
My impression is that their wind generators are very fairly priced.

73
Bruce

Bruce Grubbs
N7CEE
Flagstaff, Arizona
DM45ef
mail@brucegrubbs.com
www.brucegrubbs.com

Date: Mon, 13 May 2002 08:48:06 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <brad.mugleston@attbi.com>, "chat qrp" <qrp-l@lehigh.edu>
Subject: [126572] Re: Boy Scouts... interest....
Message-ID: <001901c1fa7c$6e1d7ec0$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Brad... and condolences. I've got a 13 yr old grandson nearby who's into scouting and I've worked on the same problem. My experience yielded the following guidelines that may help:

1.) You can't push a cooked noodle. Kids who are completely grooved/trapped/seduced by their own largely synthetic subculture are hard to turn to interests seemingly unrelated to that subculture. If you're gifted with the ability to yank them off THAT flypaper, you're a treasure. Plan on a modest "yield" in terms of active interest and participation.

2.) If a kid has any spark at all of independence and curiosity, you have a chance. It may be difficult to reveal, and the search can be very discouraging but it seems that there is a fraction of that age group that remains accessible. (your mileage may vary)

3.) One potential "hook" is the usual fascination with oddball things... "out of the main stream". Ham radio can be completely "independent of commercial means", can be home brewed, and some "fairly unique" characters hang out in this realm. And some of those characters are involved in some pretty amazing stuff seeming unrelated to ham radio... except in uniqueness.

I applaud your efforts and would be very interested in your experience.
73
AA1MY

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

----- Original Message -----
From: <brad.mugleston@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 13, 2002 1:11 AM
Subject: Boy Scout Demo

> I've been asked to talk to a local Boy Scout Troop this Wednesday evening.
> I have about 1/2 hour to 45 minutes and was wondering what kinds of things
> have been done to really grab them in a short period of time.
>
> I've done this before and the interest has been luke warm at best. I plan
> to try and cover their interests (Web access is one - don't know how to
> get Girls into the presentation, I know they are interested in them).

>
> So if any of you have done a presentation for 12 to 18 year olds and hit
> on something they were interested in I sure would like to hear about it.
>
> Sorry about the late notice but sometimes life is like a box of diodes,
> your never really sure about what you have unless you try them out.
>
> de KI0OT, Brad
>

Date: Mon, 13 May 2002 08:51:41 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126573] RE: Boy Scout Demo
Message-ID: <3CDFB6DD.691DADC4@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Speaking as the Dad of a former Cub Scout and now 14-year old, my son is intrigued by the following aspects of the hobby, listed in no particular order:

---field operations; taking radios out into the wilderness for some reason intrigues
        him--part of a making do with minimal gear, I think. He's sort of curious
        about the Adventure Radio Society's "Top of the World" efforts as well.
        I suppose you could say the Adventure Radio Society is "extreme
        hamming".

---small 'spy' type transceivers. He's really wanting to get our Pixie II up and
        running now that school is winding down. The idea of a small rig

        communicating with the world fascinates him. And I can echo Ray's
        comments on Morse code: the idea of communicating with friends in
        a way most others cannot understand grabs some attention.

        Hey, a tie-in with girls: you can talk with your friend about how
        cute a girl is without her even knowing!!

---PSK-31!! The University radio club did a demo last month w/PSK31.
    Not only did several stop by and watch the traces with fascination,
the
     club president, who had never worked this mode before, got real
      excited. One father brought his teenage son by and we had him take

      a spin at the keyboard.

---Amateur radio and emergency communications. Especially efforts like
       ARES and Skywarn. My son could care less about the weekly ARES
        net meeting, but he always debriefs me when I participate in a
public
        service effort. Also during hurricanes we've listened into the
hurricane
        net to guage how severe the storm is.

All these angles lend themselves to the idea of doing a lot with less
power, so the qrp message is a natural tie-in. Also, you may want to
talk about how inexpensive the hobby can be, especially if you work with
kits. And, PSK31 is great to talk about technological innovation and why
amateur radio isn't like getting on email! Hams can still make
significant contributions to the betterment of communications
technology.

Hope these help....

73
Ken KG4FGC

Date: Mon, 13 May 2002 09:50:12 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [126574] Re: Boy Scout Demo
Message-ID: <5.1.0.14.1.20020513094301.00a73730@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:11 PM 5/12/2002 -0600, you wrote:
>I've been asked to talk to a local Boy Scout Troop this Wednesday evening.
>I have about 1/2 hour to 45 minutes and was wondering what kinds of things
>have been done to really grab them in a short period of time.
>

>I've done this before and the interest has been luke warm at best. I plan
>to try and cover their interests (Web access is one - don't know how to
>get Girls into the presentation, I know they are interested in them).
>
>So if any of you have done a presentation for 12 to 18 year olds and hit
>on something they were interested in I sure would like to hear about it.

Brad,

I haven't had the dubious pleasure of addressing teens, but when I did a presentation on OSCAR satellites to a regular radio club meeting about 10 years ago the attention-getter was some printouts I'd made of images taken by WEBERSAT (WO-18). WEBERSAT was launched in 1990 and operational during the Gulf War. Two of the pictures I had showed the Kuwait oil fields before and after, and the smoke from the oil well fires was clearly visible.

I haven't been able to find any WEBERSAT images on the Web, but another more recent imaging bird is TMSAT (http://www.ee.surrey.ac.uk/CSER/UOSAT/missions/tmsat/index.html), built by the University of Surrey. This link (http://www.ee.surrey.ac.uk/CSER/UOSAT/amateur/tmsat/) has some nice images taken by TMSAT, including San Francisco, Seattle, southern Greece, the Red Sea, etc.

If the kids like the idea of secret codes, they'll love a private satellite!

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton
---
Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 13 May 2002 09:55:12 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126575] W1RFI at Ft Tuthill
Message-ID: <125490A005E3D3118C9C00805FC743CC040F3CEA@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="windows-1252"
Content-Transfer-Encoding: quoted-printable

Once again, I have managed to wangle an invite to attend the Ft Tuthill convention. In the "main" event, I am doing two presentations -- one on =
RFI
and the other:

10 AM =9611 AM   How to be A QRP=92er and enjoy the challenge: ED HARE, =
W1RFI

This is intended to be a "QRP for the non-QRPer" type of deal.

If anyone has any .ppt files or outlines of similar talks they have =
done,
please either send me the file or a URL.

73,=20
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: http://www.arrl.org/tis

=20

Date: Mon, 13 May 2002 10:18:25 -0400
From: "Kwik, Ed " <ed.kwik@delphiauto.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126576] RE: Boy Scout Demo
Message-ID:
<9F176F70FD71AC48AFC36F879D2B84E38F369B@tryexch01.NorthAmerica.DelphiAuto.net>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I start with the Titanic story. It usually gets their attention. Ask =
them a bunch of questions about what the operators did and why they =
think that did it. For some reason kids at this age group are =
fascinated with CW. Write out the alphabet in CW. Then have them send =
there names using a key. I use one of my QRP rigs with a dummy load as =
a transmitter and have a receiver with a loud speaker on the other side =
of the room. While each is taking their turn, I pass around my shoe box =
full of QSLs. I do this each year and works great.

Ed AB8DF

Date: Mon, 13 May 2002 14:22:05 +0000
From: jnewell@attbi.com
To: qrp-l@Lehigh.EDU
Subject: [126577] Re: Boy Scout Demo
Message-ID: <20020513142205.KINZ25765.rwcrmhc54.attbi.com@rwcrwbc58>

Two thoughts.

First, I've taken a couple of PRC-77 txcvrs with me on
Scout demos, set up in Alice packs. My older son has a
tech license, so we can let the kids talk to each other
on 6m. They love putting on the packs and talking.
This was before some of the recent movies...might be a
bigger hit now...

Second, echo the PSK31 comments. I actually think they
like the *display* most. When you get right down to it,
it's like internet chat or IM without the wire, so it's
familiar -- which is a good and a bad thing.
Interesting, but the effect wears off fast. The
waterfall display, however, keeps 'em spellbound for a
while, esp when you demonstrate what that bright yellow
line contains!

72/73
John Newell
KB1FPM

Date: Mon, 13 May 2002 10:28:26 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [126578] toroids & PC boards
Message-ID: <5.1.0.14.1.20020513102634.00a72ec0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Folks,

Here's a question for the people that have designed PC boards for circuits

using toroids.

What kind of hole pattern do you use? Do you mount the cores vertically, or lay them flat?

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton
---
Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 13 May 2002 10:22:35 -0400
From: "Howard Kraus" <K2UD@adelphia.net>
To: <qrp-l@Lehigh.EDU>
Subject: [126579] Arnie missing from FDIM?
Message-ID: <000d01c1fa89$a0da2900$07633018@buf.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The forum list had Arnie listed on it before, but I see him missing now. Does anyone know if he had to back out? I really looked forward to seeing/hearing him.

72 es TNX

Howard Kraus, K2UD

Date: Mon, 13 May 2002 10:35:45 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: <WD8CIV@worldnet.att.net>,
	"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126580] Re: toroids & PC boards
Message-ID: <003601c1fa8b$7a010590$0200000a@hunkar.com>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Dave,

Single winding Toroids I mount vertical
Dual winding Toroids I mount horizontal.
This all assumes you are using thru hole PCB's.

When doing ugly construction, I use double
stick tape and mount all toroids horizontal

-Diz, W8DIZ

----- Original Message -----
From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 13, 2002 10:28 AM
Subject: toroids & PC boards

> Folks,
>
> Here's a question for the people that have designed PC boards for circuits
> using toroids.
>
> What kind of hole pattern do you use? Do you mount the cores vertically,
or
> lay them flat?
>
> Dave
>
> ---------------------------------------
> "You can fool some of the people all of the time. That's enough to make a
> living." - Lance Burton
> ---------------------------------------
> Dave Hinerman
> WD8CIV@worldnet.att.net
>
>

Date: Mon, 13 May 2002 10:03:45 -0500
From: "Don Foster" <k5kw@geotec.net>
To: <qrp-l@Lehigh.EDU>
Subject: [126581] Re: Boy Scout Demo
Message-ID: <002301c1fa8f$6185a3a0$c6625941@21byq>
MIME-Version: 1.0

Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Ray Goff" <radioham@gmx.co.uk>

> However, what does seem to peak their interest is the use of codes such as QSY etc. and also, believe it or not, Morse! We have analysed it here and have come to the conclusion it is the secrecy aspect which appeals to them - if they learned the 'Q' codes they can speak to the 'in' friends in a way that was not immediately obvious to outsiders.>

Gang,

I think Ray, G4FON, is on to something here. I remember my first attempt at communicating via other than the spoken word was thru building a two-way "telegraph" set. As I recall, the idea was taken from a cub scout handbook and consisted of a couple of battery/flashlight bulb "stations" interconnected by wires strung between two different rooms in our home. I was then able to talk with another kid in complete privacy (secrecy). And that was nearly well over 50 years ago! Looks as if human nature hasn't changed much, eh?

Don, K5KW
Fort Gibson, Oklahoma

Date: Mon, 13 May 2002 08:05:21 -0700
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126582] Effective matching for very short antennas
Message-ID: <002a01c1fa8f$9a8bb900$0b02a8c0@0020115492>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just finished an 80m QRP rig (80m because the crystal was available from the junk box). Thinking about matching
to a short antenna for backpacking & relatively short distance communications.

Very short antennas look like a small radiation resistance in series with a

loss resistance and a large capacitive reactance.
The loss resistance varies all over the place depending on the quality of the local ground, and losses in the antenna wire
and matching components. Using an L network leads to a very high Q (i.e. narrow bandwidth) match. This seems like a
bad idea for a portable system. Ideally one would like something that may not be highly efficient, but at least doesn't depend
on a critical adjustment.

The following scheme seems to make sense, looking for opinions:
    - series inductance, resonant with the capacitance of the antenna at the desired operating frequency
    - 10:1 turns ratio toroidal transformer between the inductor and the 50ohm transceiver output

This way, I can tune the length of the whip for maximum noise on receive. The 10:1 transformer will step down the
tx output impedance from 50 ohms to 0.5 ohms, providing an approximate match to a typical Rloss+Rradiation.

I realize that this is still a narrowband solution but there is only one adjustment to make in the field. (It also occurs to
me that a HamStick would work for the base-coil-loaded-whip part of the system).

What core should I use for the transformer? Other thoughts on the approach?

72,

ian, k3imw/6

Date: Mon, 13 May 2002 16:32:46 +0100
From: "Graham G3MFJ" <graham@g3mfj.fsnet.co.uk>
To: <GQRP@yahoogroups.com>, "Graham Firth" <graham@g3mfj.fsnet.co.uk>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [126583] Re: Sprat CD version 2
Message-ID: <003801c1fa94$b9d91500$02010080@graham>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi again

Further to my mail of a couple of days ago announcing the availabliity of the new Sprat CD, I have had quite a few orders & I have sent out the CDs.

There seems to be a small problem in that if you do not remove the old version first, then when the new one is installed, issues 101 to 109 are not available. However, if you do remove it - either by an un-install if you have one, or just deleting all the files, then the CD will work fine.

Thanks to Tony (G4WIF), for finding this out & then sorting it out (Guess which way he installed it!)

The new instructions will include this information

Thanks for the bandwidth

72/3
Graham
G3MFJ
G-QRP Club Sales

Date: Mon, 13 May 2002 11:52:42 -0400
From: Jake Brodsky <frussle@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [126584] Re: Effective matching for very short antennas
Message-ID: <8snvduo4t0pgb04k7p8k6se26q0k2filtd@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

On Mon, 13 May 2002 08:05:21 -0700, you wrote:

>What core should I use for the transformer? Other thoughts on the =
approach?

Try looking at what designs folks have used for 80 meter mobile antennas. Don't let the QRO business fool you, this is all about loss and the coil losses will be substantial. You would be wise to avoid use of ferrite loading inductors on this project. =20

However, if you're dead set on using a ferrite, check in to that good old standard by Jerry Sevick, W2FMI, on Baluns and UnUns. He has lots

of information on what toroid constructions are lossy and which
aren't. =20

Jake Brodsky, mailto:frussle@erols.com
"Nearly fifty percent of all graduates came from=20
the bottom half of the class."

Date: Mon, 13 May 2002 11:20:15 -0500
From: "George, W5YR" <w5yr@att.net>
To: ianmwilson@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126585] Re: Effective matching for very short antennas
Message-ID: <3CDFE7BF.9AEECA66@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ian, I would expect that your Rloss would be very large with that
configuration, not the 0.5 ohms which is probably about right for the Rrad.
The 50-ohm coax would probably match fairly well due to the high loss
resistance, but the efficiency of the system is probably very, very low.
This would probably be acceptable for the short-range communication you
seek.

I would leave off the transformer until you get a better idea of the
driving-point Z of the antenna system. My bet is that it is not needed.

Getting a little picky on terminology, what you are attempting to do with
any antenna system matching is to provide the transmitter with its design
load resistance, usually 50 ohms. While this goal is frequently described
in terms of the "transmitter
output impedance" that really isn't an accurate description.

The problem is that the "transmitter output impedance" is rarely known and
is relatively unimportant in the antenna system matching situation. The
specified load for a transmitter to allow it to meet its design specs is
seldom if ever the actual output impedance of the transmitter. Much has bee
written on this topic by Warren Bruene and Walt Maxwell, among others.

I think that you meant "required load resistance" in your statement, but
just wanted to toss in a comment about transmitter output impedance vs.
required load resistance. Often folks write of the matching problem as one
of matching the 50-ohm source impedance of the transmitter to the antenna
system.

This viewpoint immediately suggests the Maximum Power Transfer theorem
which predicts at best a 50% efficiency which we know is not correct or
acceptable. So, the more productive viewpoint is to forget about the
transmitter output impedance - whatever that is and means - and concentrate
on providing the specified and required load resistance for the transmitter
output to meet specs.

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Ian Wilson wrote:

> The following scheme seems to make sense, looking for opinions:
>   - series inductance, resonant with the capacitance of the antenna at the
> desired operating frequency
>   - 10:1 turns ratio toroidal transformer between the inductor and the
> 50ohm transceiver output
>
> This way, I can tune the length of the whip for maximum noise on receive.
> The 10:1 transformer will step down the
> tx output impedance from 50 ohms to 0.5 ohms, providing an approximate match
> to a typical Rloss+Rradiation.

Date: Mon, 13 May 2002 12:22:08 -0400 (EDT)
From: "n2cx" <n2cx@voicenet.com>
To: qrp-l@lehigh.edu
Cc: njqrp@njqrp.org
Subject: [126586] FS Gusher Antennas at FDIM - no miracles...
Message-ID: <200205131622.MAA25624@email.voicenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1

Gang,

I will have a variety of Gusher antennas for sale during vendor night
and in the hospitality rooms at The Ramada during FDIM.

I can't whip up miracles as some other antennas claim to do. :-O
The Gushers simply offer proven, dependable performance.

Look for me with the NJQRP group.

72/73,

Joe E., N2CX

Date: Mon, 13 May 2002 10:34:11 -0600 (MDT)
From: Brian Mileshosky <n5zgt@swcp.com>
To: brad.mugleston@attbi.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126587] Boy Scouts and Youth Demo Tips
Message-ID: <Pine.GSO.4.10.10205130959140.16993-100000@inago.swcp.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Brad and Everyone,

My perspective as a 22 year old Scouter (got my Eagle in 96, still serving), as well as a past young ham (got licensed at 12). I also had the privilege of being on K2BSA staff at the past National Jamboree where we promoted the hobby to thousands of Scouts (out of 40,000 that were there).

I think it is WONDERFUL that you are making an effort to promote our hobby to young people. More of it is needed very badly. Furthermore, more people like you who are willing to promote the hobby to youth are needed (as opposed to those who just talk about it but never step up to the plate).

Some inidividuals have mentioned issues about the interest of the youth during the presentation (one mentioned how talking into a mike isn't "fun" for the youth). Let me address this and your entire presentation by offering the following:

The interest level and effectiveness during and following the presentation is a direct result of ** YOU ** -- not of the microphone, or current propagation conditions, or anything else. *You* are the one doing the presentation, and any props or activities are there only as tools. By blaming those tools for being the reason for the lack of interest by youth in your presentation, you are only offering excuses. I've worked with youth in Scouting and Amateur Radio, and have recently been on the other side of the fence as the youth myself. *You* are the man (or the woman).

Keeping that in mind, the first thing to do is to be prepared (sound familiar?). Be prepared to put on an exciting presentation that flows well and addresses the curiosity and excitement of the youth. Use

tools such as an HF demonstration or showing off your super-tiny QRP radio, but remember -- those tools are not doing the presentation for you. You are. In the future, try to get an indication of the crowd you will be presenting to. Attend their Troop meeting a few weeks before to see what they are like (young, old, mix, rowdy, calm, etc.)

Relate the hobby as best as you can to the youth. Relate it to Scouting (how the hobby aids in emergency preparation, or response....how that tiny QRP transceiver is perfect for backpacking with the Troop...how the hobby can aid in Troop communications and enjoyment during outings...how Amateur Radio can open up the door for the Radio Merit Badge...how the world's largest Scouting activity is JOTA...the list goes on.) Basically, present to them how they (as youth and as Scouts) cannot go wrong by becoming involved in the hobby.

Offer them assistance in getting their license if you wish. You are the knowlegable one, and should act as an elmer if needed. Don't rely on the adult leadership of the Troop to obtain info for those young ones. Give them ARRL pamphlets, phone numbers, etc. Do your best not to tell them, "Go off and get yourselves...". Provide it for them as much as possible. Remember, *you* are making the presentation.

Follow up. Get a list of names and numbers and check up on these youth a week, and then a month (or whenever) following the presentation. See who is really interested and then elmer them. The presentation (especially with youth) does NOT end after you say "Thank you!"

FYI, I write a monthly column on the ARRL website called "Youth@HamRadio.Fun." Feel free to do a search on it on the site and read up...my next one is in the works right now. I'm hoping to convince the powers that be that it is something that should be in QST magazine. Feel free to share your comments, and drop an email to the ARRL if you think the same.

These are just a few important points to keep in mind. I would be happy to offer more if you wish. Do a great job! You are presenting to the ultimate future of our hobby...the youth.

72,
Brian, N5ZGT
Albuquerque, NM
www.swcp.com/~n5zgt

On Sun, 12 May 2002 brad.mugleston@attbi.com wrote:

> I've been asked to talk to a local Boy Scout Troop this Wednesday evening.
> I have about 1/2 hour to 45 minutes and was wondering what kinds of things
> have been done to really grab them in a short period of time.

>
> I've done this before and the interest has been luke warm at best. I plan
> to try and cover their interests (Web access is one - don't know how to
> get Girls into the presentation, I know they are interested in them).
>
> So if any of you have done a presentation for 12 to 18 year olds and hit
> on something they were interested in I sure would like to hear about it.
>
> Sorry about the late notice but sometimes life is like a box of diodes,
> your never really sure about what you have unless you try them out.
>
> de KI0OT, Brad
>
>

Date: Mon, 13 May 2002 13:17:03 -0400
From: "Craig A. Ferris" <cferris@aeronix.com>
To: qrp-l@Lehigh.EDU
Subject: [126588] Needed:PCB thru hole repair eyelets
Message-ID: <3CDFF50E.9DEC55C2@aeronix.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Looking for a small quantity of eyelets with a minimum inside diameter
of 45 mils. Does anyone know of a good source?

72,
Craig NR4E
Melbourne, FL

Date: Mon, 13 May 2002 11:10:31 -0600
From: "Rod N0RC" <rod@n0rc.com>
To: <cferris@aeronix.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126589] Re: Needed:PCB thru hole repair eyelets
Message-ID: <000b01c1faa1$19cda230$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Craig,

Check Mouser and/or Digikey. I ordered some from one of these firms
a few years back.

73, Rod N0RC

----- Original Message -----
From: "Craig A. Ferris" <cferris@aeronix.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 13, 2002 11:17 AM
Subject: Needed:PCB thru hole repair eyelets

> Looking for a small quantity of eyelets with a minimum inside
diameter
> of 45 mils. Does anyone know of a good source?

Date: Mon, 13 May 2002 10:18:51 -0700
From: "Dave Fifield" <dave@redhotradio.com>
To: <WD8CIV@worldnet.att.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126590] Re: toroids & PC boards
Message-ID: <001c01c1faa2$411648f0$0200a8c0@AD6A>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I use vertical mounting for single toroid coils as well
as toroid transformers. The footprint I use is one I
came up with myself - actually, it will vary a little
depending on where the wires end up. There is no
standard for this - I think it's a "do you own thing"
thing.

72, Dave, AD6A

----- Original Message -----
From: "David Hinerman" <WD8CIV@worldnet.att.net>
Subject: toroids & PC boards
> What kind of hole pattern do you use? Do you mount the cores vertically,
or

> lay them flat?

Date: Mon, 13 May 2002 13:21:03 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <cferris@aeronix.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [126591] Re: Needed:PCB thru hole repair eyelets
Message-ID: <003b01c1faa2$969e7ea0$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A number of places sell PCB repair kits with 'vias' that you can insert.
DigiKey, MCMElectronics, Contact East...

You might want to get an 'assortment' kit to start. You'll pay for the
assortment, but if you don't know the via size now... (Yeah, it may have
STARTED as 45mils...) Of course, you can always just solder through
pieces of stripped wirewrap!

Oh, I don't think anyone sells a kit to repair vias with internal
connections.
But in that case, I HAVE had success using the stripped wirewrap trick.
Just place the piece of stripped wirewrap through the hole with enough
on each side to 'lay over' onto where the trace goes. Make sure the
traces are scraped and bare. Solder one side, then 'blob' the wire
through
the hole. Chances are fairly good that the blob with 'take' to the edge
of
the internal connection that got ripped out when the via was damaged.
But you'll have check it with a meter to find out, and blob again and
again
until you get the connection. Sucking out the hole and using fresh solder
with flux sometimes can help too. Finally, to the trace on the second
side and you're done.

Mike

----- Original Message -----
From: "Craig A. Ferris" <cferris@aeronix.com>

> Looking for a small quantity of eyelets with a minimum inside diameter

> of 45 mils. Does anyone know of a good source?
>
> 72,
> Craig NR4E
> Melbourne, FL
>
>

Date: Mon, 13 May 2002 11:27:13 -0600 (MDT)
From: "James P. Rybak" <jrybak@mesastate.edu>
To: Dave Fifield <dave@redhotradio.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126592] "Mic In" OK Replacement for "Line In" on PSK 31 ?
Message-ID: <Pine.LNX.4.21.0205131123330.26441-100000@mesastate.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm considering getting a laptop for portable QRP PSK 31 operation. The laptop I'm considering does not have a "Line In" jack but does have a "Mic In" jack. Will this work OK for the audio input to the soundcard for PSK 31?

Thanks.

Jim Rybak W0KSD

Date: Mon, 13 May 2002 12:38:11 -0500
From: "Brian Murrey" <brian@iquest.net>
To: "Pigs" <fpqrp-l@mpna.com>, "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [126593] June QST
Message-ID: <004901c1faa4$f4614340$65492bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just got the June QST - Ten Tec is running a full page ad on the Jupiter, talking about how easy ti will be to add 60m to it. <grin>

==
 KB9BVN/QRP - New Whiteland IN - EM69WN
 QRP-ARCI #10223 QRP-L #1540 FIST #5695
   FISTS CC #764 - Proud Member ARRL
 HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
   INTO INFAMOUS AF4PS ATTIC DIPOLE
  SOC #400 AND FLYING PIGS QRP #-57
==

Date: Mon, 13 May 2002 12:43:04 -0500
From: "Brian Murrey" <brian@iquest.net>
To: <n5zgt@swcp.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126594] Re: Boy Scouts and Youth Demo Tips
Message-ID: <005201c1faa5$a300c8d0$65492bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In my experience, scouts go wild over a simulated
emergency...especially if it involves makeshift antennas and radio
communications without using power mains and commercial
generators....sounds like Field Day huh? <grin>

----- Original Message -----
From: "Brian Mileshosky" <n5zgt@swcp.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 13, 2002 11:34 AM
Subject: Boy Scouts and Youth Demo Tips

> Hi Brad and Everyone,
>
> My perspective as a 22 year old Scouter (got my Eagle in 96,
> still serving), as well as a past young ham (got licensed at 12). I
also
> had the privilege of being on K2BSA staff at the past National
Jamboree
> where we promoted the hobby to thousands of Scouts (out of 40,000
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> were there).
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> I think it is WONDERFUL that you are making an effort to promote
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> "fun" for the youth). Let me address this and your entire
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> The interest level and effectiveness during and following the
> presentation is a direct result of ** YOU ** -- not of the
microphone, or
> current propagation conditions, or anything else. *You* are the one
doing
> the presentation, and any props or activities are there only as
tools. By
> blaming those tools for being the reason for the lack of interest by
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> in your presentation, you are only offering excuses. I've worked
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> tools such as an HF demonstration or showing off your super-tiny QRP
> radio, but remember -- those tools are not doing the presentation
for you.
> You are. In the future, try to get an indication of the crowd you
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> they are like (young, old, mix, rowdy, calm, etc.)
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> Relate the hobby as best as you can to the youth. Relate it to
> Scouting (how the hobby aids in emergency preparation, or
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Troop...how
> the hobby can aid in Troop communications and enjoyment during
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> Badge...how the world's largest Scouting activity is JOTA...the list
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Don't rely
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> Give them ARRL pamphlets, phone numbers, etc. Do your best not to
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> possible. Remember, *you* are making the presentation.
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> youth a week, and then a month (or whenever) following the
presentation.
> See who is really interested and then elmer them. The presentation
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> FYI, I write a monthly column on the ARRL website called
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> powers that be that it is something that should be in QST magazine.
Feel
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>
> These are just a few important points to keep in mind. I would be
> happy to offer more if you wish. Do a great job! You are presenting
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> the ultimate future of our hobby...the youth.
>
> 72,
> Brian, N5ZGT

> Albuquerque, NM
> www.swcp.com/~n5zgt
>
> On Sun, 12 May 2002 brad.mugleston@attbi.com wrote:
>
> > I've been asked to talk to a local Boy Scout Troop this Wednesday
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> > I have about 1/2 hour to 45 minutes and was wondering what kinds
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about it.
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diodes,
> > your never really sure about what you have unless you try them
out.
> >
> > de KI0OT, Brad
> >
> >
>
>

Date: Mon, 13 May 2002 13:52:37 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [126595] Re: Boy Scouts and Youth Demo Tips
Message-ID: <5.1.0.14.1.20020513134310.00a756c0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:43 PM 5/13/2002 -0500, you wrote:
>In my experience, scouts go wild over a simulated

>emergency...especially if it involves makeshift antennas and radio
>communications without using power mains and commercial
>generators....sounds like Field Day huh? <grin>

Brian,

Just make sure the Scouts know it's a -simulated- emergency.

When I was a Scout we (Scoutmaster, Assistant SM (my dad) and I) decided it would be a good lesson in first aid for snakebite if somebody (me) got bit my a snake. I came staggering into camp whining that I'd been bit on the ankle, then fell over. I had already put a couple of red marks on my ankle to add to the realism.

Turns out the guys knew their snakebite procedures pretty well. Half of them dug out their Cutter's kits while the other half flopped my over on my back and covered me with a sleeping bag. One got a constrictor band around my leg and another was JUST about to slice me open with the X-Acto blade from his kit when the Scoutmaster caught him and confessed it was a setup. Fortunately Dad caught the two guys that were sprinting for the ranger station before they could spread the alarm.

If you're looking for enthusiasm, just be prepared if you get it.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton
---
Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 13 May 2002 12:08:19 -0600 (MDT)
From: Brian Mileshosky <n5zgt@swcp.com>
To: David Hinerman <WD8CIV@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126596] Re: Boy Scouts and Youth Demo Tips
Message-ID: <Pine.GSO.4.10.10205131206450.14265-100000@shimi.swcp.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Woops...Hi David,

I didn't make the comment about simulated emergencies...another gentleman on the list did. But that brings up another point...everyone on the list should invite a young person to Field Day and make it a fun activity for him/her/them! Relative, friend or neighbor...call them up and bring them along!

72,
Brian, N5ZGT

On Mon, 13 May 2002, David Hinerman wrote:

> At 12:43 PM 5/13/2002 -0500, you wrote:
> >In my experience, scouts go wild over a simulated
> >emergency...especially if it involves makeshift antennas and radio
> >communications without using power mains and commercial
> >generators....sounds like Field Day huh? <grin>
>
> Brian,
>
> Just make sure the Scouts know it's a -simulated- emergency.
>
> When I was a Scout we (Scoutmaster, Assistant SM (my dad) and I) decided it
> would be a good lesson in first aid for snakebite if somebody (me) got bit
> my a snake. I came staggering into camp whining that I'd been bit on the
> ankle, then fell over. I had already put a couple of red marks on my ankle
> to add to the realism.
>
> Turns out the guys knew their snakebite procedures pretty well. Half of
> them dug out their Cutter's kits while the other half flopped my over on my
> back and covered me with a sleeping bag. One got a constrictor band around
> my leg and another was JUST about to slice me open with the X-Acto blade
> from his kit when the Scoutmaster caught him and confessed it was a setup.
> Fortunately Dad caught the two guys that were sprinting for the ranger
> station before they could spread the alarm.
>
> If you're looking for enthusiasm, just be prepared if you get it.
>
> Dave
>
>
> ---
> "You can fool some of the people all of the time. That's enough to make a
> living." - Lance Burton
> ---
> Dave Hinerman
> WD8CIV@worldnet.att.net
>
>

Date: Mon, 13 May 2002 20:16:42 +0400
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: <QRPp-I@yahoogroups.com>, "QRP-L" <qrp-l@Lehigh.EDU>,
        "G-QRP" <gqrp@yahoogroups.com>
Subject: [126597] QRP-DX Net
Message-ID: <006a01c1faad$3c2db840$7be522c3@lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="koi8-r"
Content-Transfer-Encoding: 7bit

Dear OMs!
This is an idea and I'm interest for your opinion.
There are many DX Nets on the HF, like Pacific-DX Net, VHF Net etc.etc.
I want to try found our QRP DX Net. Turn your rich fantasy and write here
your ideas, please.
True, we are have already continuously non-stop QRP Net at QRP-frequencies.
But, let it be a once per-weekly Net specially for inter-continental 2-way
QRP QSO. For example, during my QRPing since '89 I have just a few QSOs with
US, 2 QSO South America, single - AF and VK. That is my 2 watts WAC! So what
do the QRPers users 1 watt and less - decimals/hundreds mW???
All the best for all you there! 72! de RV3GM/QRP
Oleg V. Borodin

QRP-ARCI#10742 G-QRP#4690 QRPp-I#2 etc...

Date: Mon, 13 May 2002 19:39:22 +0400
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: <WD8CIV@worldnet.att.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126598] Re: toroids & PC boards
Message-ID: <006901c1faad$3a8a1a60$7be522c3@lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>
> What kind of hole pattern do you use? Do you mount the cores vertically,
or

> lay them flat?
>

Dear OM Dave!
Mine, I mount the cores any methods I like, hi. That does not matter.
Good luck in design! 72! de RV3GM/QRP
Oleg V. Borodin

P.S.
> ---------------------------------------
> "You can fool some of the people all of the time. That's enough to make a
> living." - Lance Burton
> ---------------------------------------

I'm not agree with....

Date: Mon, 13 May 2002 20:27:26 +0400
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [126599] Member's list
Message-ID: <006b01c1faad$3d9efb80$7be522c3@lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="koi8-r"
Content-Transfer-Encoding: 7bit

Does any where a QRP-ARCI Member's List? At QRP-ARCI site I didn't find it.
72! RV3GM Oleg

Date: Mon, 13 May 2002 15:16:03 -0400
From: "Lee Mairs" <lmairs@cox.rr.com>
To: <n2go@arrl.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [126600] Re: Aluminum / S-S Compatibility (off topic)
Message-ID: <01a701c1fab2$a7587740$6401a8c0@nv.cox.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Conducting grease is absolutely NOT the thing to do. You have dissimilar metals in contact you've made a battery. One of the metals (the least or the most noble - can't remember which) will corrode away. This is called galvanic corrosion and it is a giant problem on boats.
73 de Lee
KM4YY

Language was invented to ask questions. Answers may be given by grunts and gestures, but questions must be spoken. Humanness came of age when man asked
the first question. Social stagnation results not from a lack of answers but
from the absence of the impulse to ask questions.
  --Eric Hoffer

----- Original Message -----
From: <n2go@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, May 12, 2002 12:06 PM
Subject: Re: Aluminum / S-S Compatibility (off topic)

> I have a tapped aluminum plate sitting on the ground in my yard. It has 60
> SS screws in it for about 10 years now. You might want to use some
> conductive grease like the kind that is used on utility boxes. I guess
> some use aluminum wires from the pole. This will minimize any corrosion
> from causing a high resistance connection. This is the same grease that is
> used on some antenna elements.
>
> 73,
>
> Jim n2go
>
>

Date: Mon, 13 May 2002 14:34:54 -0500
From: "Karl Kanalz" <kkanalz@gcecisp.com>
To: <master72@lipetsk.ru>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126601] Ttoroids & PC board Hole Patterns
Message-ID: <NFBBKOMEFGJGEBABODPOKEIBCDAA.kkanalz@gcecisp.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Personally, Dave, (et al), I use a *round* pattern for my toroids....
Whether flat on the board
or standing upright! :)

Karl K - W8TIF
McKinney, Texas

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
Oleg V. Borodin
Sent: Monday, May 13, 2002 10:39 AM
To: Low Power Amateur Radio Discussion
Subject: Re: toroids & PC boards

>
> What kind of hole pattern do you use? Do you mount the cores vertically,
or lay them flat?

Date: Mon, 13 May 2002 16:56:43 -0400
From: "Bob Berlyn" <bberlyn@baycomp.com>
To: <cferris@aeronix.com>,
        "QRP-L Posting \(E-mail\)" <qrp-l@lehigh.edu>
Subject: [126602] RE: Needed:PCB thru hole repair eyelets
Message-ID: <000101c1fac0$aab55580$0864a8c0@baycomp.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="us-ascii"
Content-Transfer-Encoding: 7bit

Take a look at www.circuitnet.com

Hope this helps.

73 Bob N1PWU

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Craig A. Ferris
> Sent: Monday, May 13, 2002 1:17 PM
> To: Low Power Amateur Radio Discussion
> Subject: Needed:PCB thru hole repair eyelets
>

>
> Looking for a small quantity of eyelets with a minimum inside diameter
> of 45 mils. Does anyone know of a good source?
>
> 72,
> Craig NR4E
> Melbourne, FL
>
>

Date: Mon, 13 May 2002 17:59:42 -0400
From: Parker Buckley <buckley@iapdatacom.net>
To: jrybak@mesastate.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [126603] Re: "Mic In" OK Replacement for "Line In" on PSK 31 ?
Message-ID: <3CE0374E.263DBACF@iapdatacom.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I've used both jacks on my PC. Mic In is more sensitive, so you'll have
to leave the soundcard gain lower, or maybe even add attenuation between
the audio out from the rig and the sound card.

Parker WD8JOL

"James P. Rybak" wrote:
>
> I'm considering getting a laptop for portable QRP PSK 31 operation. The
> laptop I'm considering does not have a "Line In" jack but does have a "Mic
> In" jack. Will this work OK for the audio input to the soundcard for
> PSK 31?
>
> Thanks.
>
> Jim Rybak   W0KSD

Date: Mon, 13 May 2002 17:59:12 -0400
From: "Bruce Shaw" <ag4ny@ivwnet.com>
To: <radioham@gmx.co.uk>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [126604] Re: Boy Scout Demo
Message-ID: <003a01c1fad1$f0f0b420$cfe4e243@oemcomputer>

MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Our local club, K4EG, had the Scouts at our last meeting so they could earn their Radio merit badge. One of our members set up his MARS station and had arranged for several other ops to be on the air. The guys loved it! Did not want the meeting to end - did not want to give up the mike. Several of the Scouts signed up for the Tech classes we are going to begin in June. We also had several mobile units set up and one of our members running CW on the club station.
The local newspaper, the Times-News, also sent and photographer and a reporter to cover the meeting and we had a nice article in the paper. All that took was an email to the city editor about a week before the meeting. I guess you need to have something for everyone and action on the air waves.
72
Bruce Shaw
AG4NY
Gibsonville NC
----- Original Message -----
From: Ray Goff <radioham@gmx.co.uk>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Monday, May 13, 2002 6:41 AM
Subject: RE: Boy Scout Demo

> Hi,
>
> We run a Jamboree On The Air station each October where Boy Scouts and
Girl
> Guides drop in over the weekend to see the station and also it gives them
a
> chance to earn their Radio Communications badge. I don't know if this
badge
> exists in the US?
>
> We have found that the idea of speaking into a microphone doesn't really
get
> them excited, in fact the most talkative are the ones most likely to
freeze
> when handed the icrophone! Also, the notion that the station might be a
long
> way away seems to be lost on them as well - I guess if you can use a cell
> phone to talk to the world, it is difficult to explain how little
> infrastructure is needed to use amateur radio!
>
> However, what does seem to peak their interest is the use of codes such as

> QSY etc. and also, believe it or not, Morse! We have analysed it here and
> have come to the conclusion it is the secrecy aspect which appeals to
them -
> if they learned the 'Q' codes they can speak to the 'in' friends in a way
> that was not immediately obvious to outsiders.
>
> My daughter, who is 12, is a Girl Guide and has become interested in
Amateur
> Radio partly through me and partly because of these Jamboree's. She has
> recently taken the new Foundation License here in the UK and is fascinated
> by PSK31 - this time the attraction is the combination of the computer and
> the radio. Look out for M3MLG on 20m PSK!
>
> I hope that this might give you some ideas!
>
> 73/72's de Ray g4fon
>
> RSGB, BATC, GQRP-10698
> QRP-L 2378, QRP-ARCI 11153
> ray@g4fon.co.uk
> www.g4fon.co.uk
>
>
>
>

Date: Mon, 13 May 2002 18:09:58 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <jrybak@mesastate.edu>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [126605] Re: "Mic In" OK Replacement for "Line In" on PSK 31 ?
Message-ID: <003b01c1facb$023ad640$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In a generic sense....

A lot of the 'mic' jacks are designed for inputs around the range of
2-10mv. The line in jacks are usually designed for inputs around 100mv
or more. If you can't turn the audio down enough, you may need an
attenuating patch cord.

There may be other 'gotchas', I don't know for sure. The mic and the

line in are SEPARATE. If your software allows external input selection, then you're probably ok.

Another thing to watch for is the mic in sometimes is a stereo jack that puts power out for electret mics. And, a lot of mic in lines are mono, where line in is stereo. Although that shouldn't matter.

Mike

----- Original Message -----
From: "James P. Rybak" <jrybak@mesastate.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 13, 2002 1:27 PM
Subject: "Mic In" OK Replacement for "Line In" on PSK 31 ?

>
> I'm considering getting a laptop for portable QRP PSK 31 operation. The
> laptop I'm considering does not have a "Line In" jack but does have a
"Mic
> In" jack. Will this work OK for the audio input to the soundcard for
> PSK 31?
>
> Thanks.
>
> Jim Rybak   W0KSD
>

Date: Tue, 14 May 2002 06:33:06 +0100
From: Chuck Adams <k7qo@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [126606] Dayton List de K7QO
Message-ID: <5.1.0.14.0.20020514063033.009ecc00@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

K7QO's Helpful Hints to Dayton
Version 1.0
May 13th, 2002 Monday

Gang,

As a large number of us will be heading out to Dayton this

week, here is my list of things that I will be taking with
me with just a short note on what the item(s) will be used
for. I hope this will help a few of you. And a pricing
chart at the end that is no where near completion but it
will never be complete. :-) And I will not be posting
corrections as time is short for us all this week.
Start now and carry around with you a notepad or whatever
with pen and write down stuff as you think of it. I know
that my memory ain't what it used to be, if it ever was....
Go through the house and garage and look for trigger information.
Dig out the work in progress or to be done when you get back.
You want to make sure you go to Dayton with a plan, if you want
to make the trip rewarding and worth while.

This list is in no particular order and not complete at this time.
First pass version. Do not copy back to QRP-L, please.

0. Take your brain with you at all times and keep it in gear.
    It will save you a lot of problems. Use common sense as
    much as possible. Don't lose control like a kid in a candy
    store.

1. 3-ring binder with notes, etc. that you made before the trip.
    Also have extra filler paper to take notes while in Dayton. A
    few pens also. One of my favorite pens now is the new Bic Gel
    pen that has medium point and is much cheaper than all the other
    gel pens that I have seen.
    Put in the notebook all email printings from the list for
    Dayton that interest you, vendor booth numbers, schedule for
    QRP events and meeting, etc. Include this posting as a
    starting point (not that it is that important).

2. List of parts of that you looking for in particular along
    with their last known pricing either new or used. Set a limit
    as to what you will pay. The game here is to get the most
    bang for your buck. Make multiple copies. One for your
    notebook and another in your pocket handy to get to.
    You can make multiple passes through the flea market and
    inside the arena making notes of best buys before buying some
    stuff. And then there is the problem if what you want will
    be there when you make the second pass. Been there. Done that.
    We've all bought something and not 5 minutes later run across
    the same thing in better shape and at a cheaper price. :-)
    'Cuz we thought we would never see another again in our lifetime.....

3. Bag to carry stuff around in. Get one that is water proof if
    possible. If not, then carry in side the bag (even if waterproof):
    a. Garbage bags (different sizes) to put goodies in to keep it

dry if the weather is wet or to keep things from breaking wet or dry.

b. Assortment of zip-lock baggies to put new found goodies in.

c. Small pill bottles with blank labels for small parts ---- transistors, diodes, varactors, etc. that you don't want to lose or get squashed.

d. Anti-static stuff or aluminum foil for sensitive parts.

4. I'm carrying a 12V 0.8AHr small gel-cell with DC connector. This for powering things like K1's, K2's, SWL rigs, or anything else that requires 12V that I might be interested in. And an adaptor that lets me connect to the small and large pin connectors. Also doubles as a show and tell power source at the Ramada gathering. Charged before I leave the house and with charger in the hotel room. In zip lock bag. (WARNING: make sure you have a battery where the power plug can never come in contact with the opposite source voltage!! Use goodly amounts of electrical tape where needed.)

5. Some AA NiMH batteries for testing stuff that needs the 1.5V batteries. Four of these puppies fully charged. Also carrying charger (wall wart). In a zip lock baggie.

6. Digitial DVM for testing stuff. And it has a transistor/diode checker builtin. Bought this puppy for $7 at Atlanticon the first year. Put in new batteries. In a zip lock baggie. Be sure to bring the probes. :-)

7. 10X Loupe for looking at the small stuff up close and personal. They make the markings on some of the stuff smaller than I can read. :-) In a zip lock baggie. Magnifier will do nicely also.

8. Rain gear and sun gear. Hat and cheap sun glasses. Sneakers that I don't care if they get wet. The good ones stay home. No place I'm going at Dayton that requires coat and tie. :-) I personally like to wear a tee-shirt with a collar. We'd all give outsiders a better opinion of the group as a whole if we'd look a little better. IMHO. Also when you go out to eat, clean up a little. :-) Bring both short and long sleeves to adapt to the weather of the day. Don't dress like a slob in public, please. Your mom taught you better than that. Shock factor doesn't work at Dayton.

9. Set of screw drivers (phillips and straight blades) for taking my stuff and other people's stuff apart. Don't carry this on the plane. Put them in the checkin luggage. In a zip lock baggie.

10. Ear buds for listening to equipment that I might wanna power up

and check out. Adapter plugs for 1/4" mono and stereo. In zip lock baggie.

11. Walkman to listen to tunes while spending several days walking around. If I'm walking with someone I turn it off. Large zip lock baggie when not in use.

12. Money and travelers checks. Don't leave home without them. ATM card for backup, but do remember your limits.

13. Handi talkie if you have some others around the lot that you want to keep track of and note deals back and forth.

14. Crystal checker, noise generator, and VE3DNL marker generator for testing receiver sensitivity. With 9V battery to power each. These items are small and useful and fit in small plastic container to keep from being damaged.

15. Leather gloves if you are a boat anchor type of individual. And a little red wagon....

List of Some Pricing Information (as best I can find in short order)

KITS

1. NE4040. $40.00
1. OHR Spirit I Single Band Transceiver (40m or 20m). $149.95
2. Original NorCal 40 kit. $94.00
3. NorCal 40 Mini-Kits (PC bard, Case, Screws, MV108 Varactor, and Manual. $25.00
4. NorCal Sierra kit. $160 plus $25 per band module.
5. NorCal 40a. $129.00 from Wilderness Radio.
6. TenTec 13XX Series. $99.00.
7. NorCal St. Louis Tuner Kit. $75.00
8. NorCal 38 Special Kit. $28.00

Some New Prices at the time product announced

TenTec RX10 DC Receiver 80/40/20/15	$59.95
TenTec MR1 module group(MX1, AA1, VO1, TX1)	$29.95
MR1A MR1+AC6	$37.90
AA1 IC audio amplifier	$7.95
VO1 40-80M osc-buffer	$7.95
TX1 XTAL Osc & PA	$7.95
Elecraft K1 with 4-band module	$349.00
Elecraft K2 w/o accessories	$589.00

TenTec Used Prices posted 1994 by K5FO

MODEL	DESCRIPTION	PRICE
225	525 Power Supply	$ 50.00
227	200W Tuner	$ 65.00
228	200W Tuner w/SWR	$ 75.00
229/A/B	2KW Tuner w/SWR	$ 185.00
234	RF Speech Processor	$ 75.00
238	2KW Tuner w/SWR	$ 275.00
242	540 Remote VFO	$ 150.00
243	545/546 Remote VFO	$ 150.00
244	540/545 Display	$ 75.00
247	200W Tuner	$ 50.00
251	520 Power Supply	$ 50.00
252/G/MO	540/545 Power Supply	$ 90.00
253	2KW Auto Tuner	$ 775.00
254	200W Tuner w/SWR	$ 140.00
255	546 Power Supply	$ 90.00
260	580/560 Power Supply	$ 90.00
262/G	544/546 Power Supply	$ 90.00
263	560 Remote VFO	$ 175.00
263G	561 Remote VFO	$ 195.00
277	200W Tuner w/SWR	$ 65.00
283	580 Remote VFO	$ 150.00
301	562/563 Remote VFO	$ 60.00
405	505/509/515 50W Amp	$ 165.00
420	12V 500W Amp	$ 975.00
422	1KW 3-500Z Amp	$ 1295.00
425	1.5KW 3CX800 Amp	$ 2000.00
505	QRP Argonaut	$ 175.00
509	QRP Argonaut	$ 275.00
510	Triton I	$ 140.00
515	QRP Argonaut	$ 395.00
520	Triton II	$ 150.00
525	Argosy I Analog	$ 395.00
525D	Argosy II Digital	$ 450.00
535	Argonaut II	$ 950.00
536	Delta II	$ 1095.00
540	Triton IV	$ 325.00
544	Triton Digital	$ 425.00
545	Omni A	$ 375.00
546	Omni D	$ 450.00
546C	Omni C	$ 500.00
560	Corsair I	$ 575.00
561	Corsair II	$ 1000.00
526	Omni V	$ 1300.00
563	Omni VI	$ 2000.00
570	Century 21 CW Only	$ 175.00

574 Century 21 Digital $ 200.00
579 Century 22 CW Only $ 225.00
580 Delta I $ 475.00
585 Paragon $ 1475.00
936 536 Power Supply $ 160.00
960 561/585 Power Supply $ 125.00
961 562/563/585 Supply $ 150.00
969 579 Power Supply $ 50.00
9420 420 Power Supply $ 550.00

PADDLES (approximate pricing)

1. NorCal K8FF Paddle. $25
Vibroplex Code Warrior $99
2. N2DAN Paddle (Mercury original) $395
3. WBL Paddles. $135
4. Hensley Paddles. $465

FYI

Chuck Adams, K7QO CP-60 k7qo@earthlink.net
http://www.qsl.net/k7qo

Moving to Arizona? --- Bring your own water, please.

Date: Tue, 14 May 2002 02:22:55 +0400
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: "Brian Waddell" <gm4xqj@btinternet.com>, <QRPp-I@yahoogroups.com>,
"QRP-L" <qrp-l@Lehigh.EDU>, "G-QRP" <gqrp@yahoogroups.com>
Subject: [126607] Re: [QRPp-I] QRP-DX Net
Message-ID: <00d601c1facc$fe345740$7be522c3@lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain;
charset="koi8-r"
Content-Transfer-Encoding: 7bit

Tnx for answer!

> Hello Oleg,
> Great idea, what day / time do you suggest ?
> Brian GM4XQJ

I think Saturday 10.00 and 22.00 UTC the major freq is 14060 there is a Net

Control. Be good if he will be on-line with YahooMessenger or ICQ and QRP-Cluster. Also maybe some Net Coordinators, for example one in each continents or one per each band. Shortly, I'm not looking for any global troubles with Net, let us try this week Saturday.
72! de RV3GM/QRP
Oleg V. Borodin
QRP-ARCI#10742 G-QRP#4690 QRPp-I#2 QRP-Master#50

End of QRP-L Digest 2554
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